Map of parcels at 41 kft on 07070818 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070818 2.5 2.0 Days Since Convection 1.5 1.0 NASA/ARC **PSL** Last Image Used is 0707080545 1443 Trajectories

Map of parcels at 41 kft on 07070818 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070818 5.0 4.5 Days Since Convection 4.0 3.0 2.5 NASA/ARC **PSL** Last Image Used is 0707080545 1443 Trajectories

Map of parcels at 41 kft on 07070818 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070818 7.5 7.0 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARG PSL+ Last Image Used is 0707080545 1443 Trajectories

Map of parcels at 41 kft on 07070818 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070818 10.0 9.5 9.0 8.5. 8.0 7.5 NASA/ARC **PSL** Last Image Used is 0707080545 1443 Trajectories